## INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2004/001773

#### A. CLASSIFICATION OF SUBJECT MATTER

IPC<sup>7</sup> C08L 53/02, C08L 23/16, C08L 23/22, F42B 12/72, B29C 43/00, B29C 45/00 According to International Patent Classification (IPC) or to both national classification and IPC

#### **B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC<sup>7</sup> C08L 53/02, C08L 23/16, C08L 23/22, F42B 12/72, B29C 43/00, B29C 45/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) DELPHION, STN REGISTRY, CAPLUS

thermoplastic elastomer, TPE, block copolymer, Kraton, ammunition, heavy weight filler, bismuth, copper, iron, tungsten, creep

### C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
Y	KIM, JEONG H. et al, Improvement in the mechanical properties of multicomponent polymer blends using dual compatibilizers, Polymer Science and Engineering 2001, Vol.85, pages 346-347 ISSN 0743-0515 the whole document	1 - 33
Y	EP 641836 A2 (GARDNER, JOHN C. et al) 8 March 1995 (1995-03-08) the whole document	1 - 33
Y	WO 01/42343 A1 (FRAUNHOFER GES.) 14 June 2001 ( 2001-06-14) the whole document	1 - 33
Y	WO 02/085953 A2 (BRIDGESTONE/FIRESTONE NORTH AMERICAN TIRE, LLC) 31 October 2002 (2002-10-31) the whole document	1 - 33
Y	EP 1067164 A1 (SAINT-GOBAIN PERFORMANCE PLASTICS CORP.) 10 January 2001 (2001-01-10) the whole document	1 - 33

	the whole document				
[ ] F	urther documents are listed in the continuation of Box C.	[X]	See patent family annex.		
* "A"	Special categories of cited documents:  document defining the general state of the art which is not considered	· · T	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
"E"	to be of particular relevance earlier application or patent but published on or after the international filing date	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
"O"	document referring to an oral disclosure, use, exhibition or other means	u.g.n	being obvious to a person skilled in the art document member of the same patent family		
· wPus	document published prior to the international filing date but later than the priority date claimed	α,	document member of the same patent tanning		
Date of	Date of the actual completion of the international search		Date of mailing of the international search report		
1	1 March 2005 (11-03-2005)	22 A	pril 2005 (22-04-2005)		
Name	Name and mailing address of the ISA/CA		Authorized officer		
Place 50 Vi	lian Intellectual Property Office du Portage I, C114 - 1st Floor, Box PCT ctoria Street cau, Quebec K1A 0C9	Tony	F. Neppel (819) 997-2890		
	nile No.: 001(819)953-2476				

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# INTERNATIONAL SEARCH REPORT

Intormation on patent family members

nternational application No. PCT/CA2004/001773

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